Call for Paper and Participation

1st Big Data Interoperability Framework Workshop: Building Robust Big Data Ecosystem

ISO/IEC JTC 1 Study Group on Big Data | March 18 - 21, 2014
San Diego Supercomputer Center, San Diego, CA, USA








Background

Big Data is the term used to describe the deluge of data in our networked, digitized, sensor-laden, information driven world. There is a broad agreement among commercial, academic, and government leaders about the remarkable potential of "Big Data" to spark innovation, fuel commerce, and drive progress. The availability of vast data resources carries the potential to answer questions previously out of reach. However there is also broad agreement on the ability of Big Data to overwhelm traditional approaches. The rate at which data volumes, speeds, and complexity are growing is outpacing scientific and technological advances in data analytics, management, transport, and more.

The ability to create consensus-based vendor-neutral, technology and infrastructure agnostic solutions to enable Big Data stakeholders to pick-and-choose best processing tools for collecting, curating, analyzing, visualizing, and accessing massive of data on a most suitable computing platform and cluster while allowing value-added from Big Data service providers and flow of data between the stakeholders in a cohesive and secure manner is desirable.

The ISO/IEC JTC 1 Study Group on Big Data would cordially invite big data experts to submit a paper in this **Building Robust Big Data Ecosystem** effort, especially focuses on use cases, analytics processing, security & privacy, architectures, and management. The list of topics of interest includes, but is not limited to:

- ***Big Data Use Cases –*** provide application scenarios that require either mixed legacy system and/or horizontal scalable from the analytics, platforms, and infrastructures environment;
- ***Big Data Analytics Processing*** – provide well-defined generic algorithms for distributed computing, metadata extraction, search and retrieval, and data exploration;
- ***Big Data Architecture/Infrastructure –*** provide effective provision and configuration of horizontal applications, databases, distributed resources and computing clusters;
- ***Big Data Security and Privacy*** – deal with infrastructure security, data privacy, data management, integrity and reactive security; and
- ***Big Data Management –*** monitor scalable distributed high-performance systems to ensure Big Data applications are efficiently and securely executed.

Paper Submission and Proceedings Publication

Full-length papers between 4 and 6 A4 pages are solicited. Detailed submission instructions is available at the Study Group on Big Data website below. Each submission will be published by the NIST Special Publication. High quality papers with peer-review will be published by the Association for Computing Machinery (ACM) International Conference Proceedings Series.

Important Dates / Website

Abstract submission: March 11, 2014; Paper submission: June 30, 2014
For more information please visit: http://jtc1bigdataSG.nist.gov

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